

FIG. 1

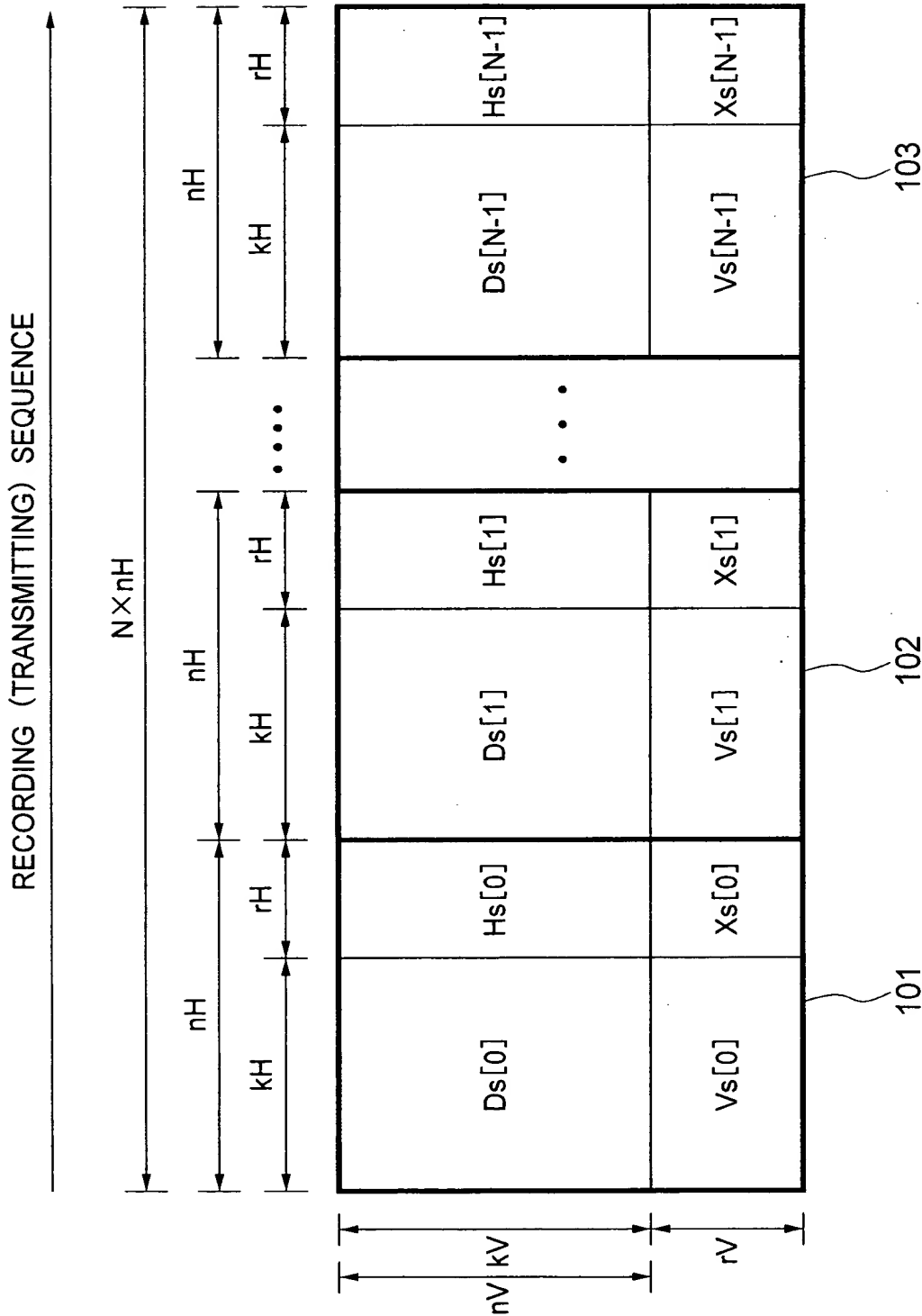


FIG. 2

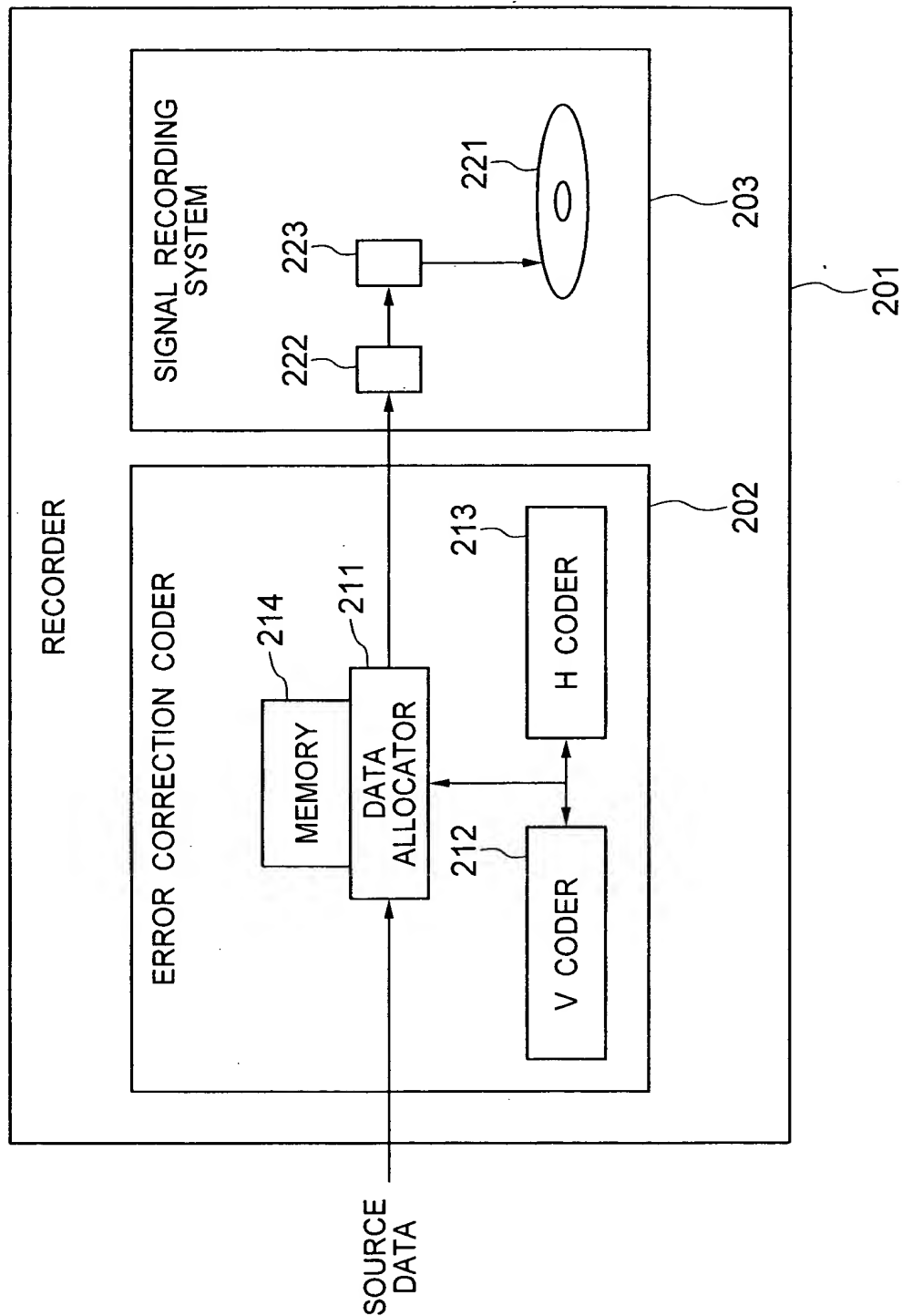
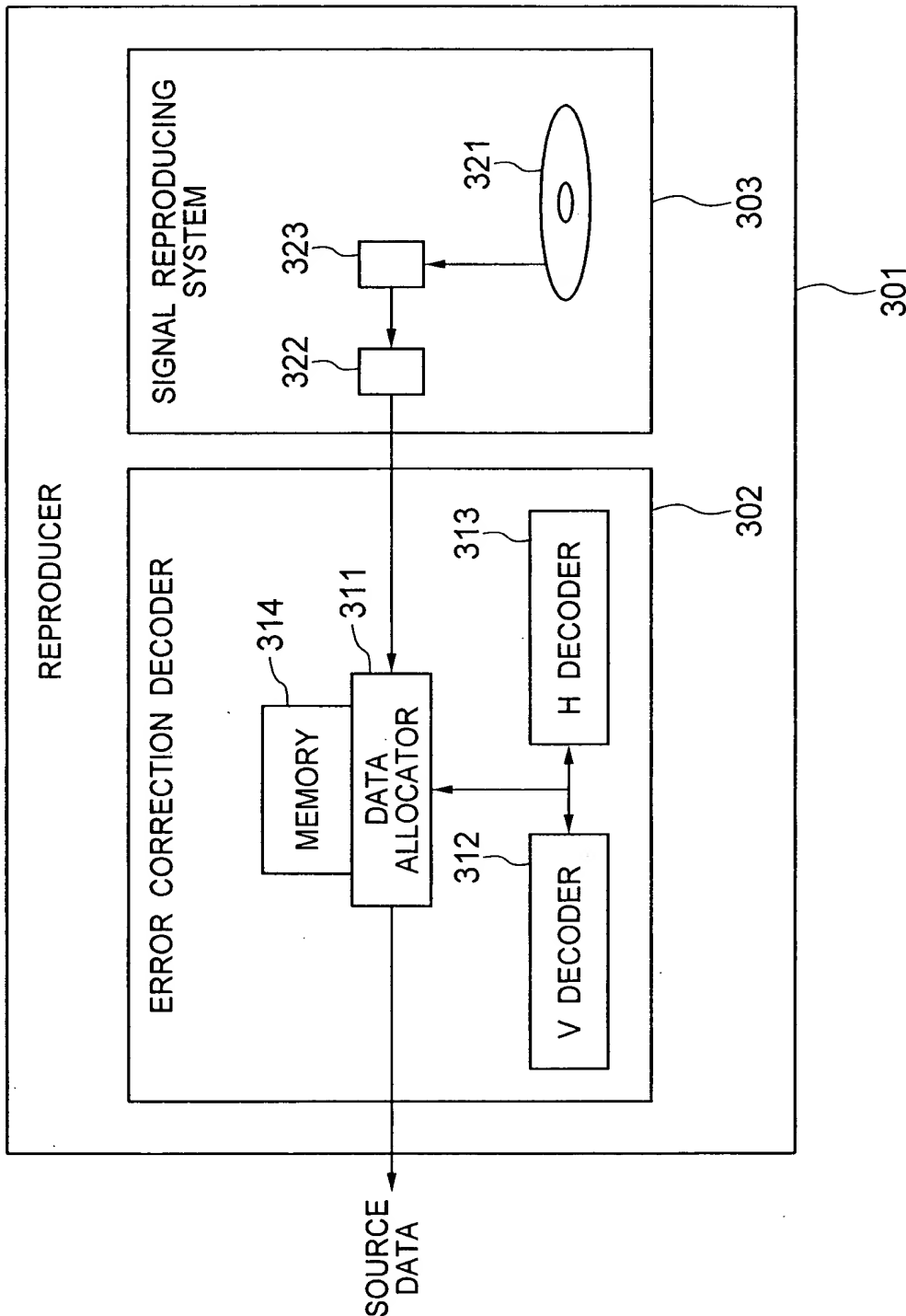


FIG. 3



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10/22/00 55659660

FIG. 4

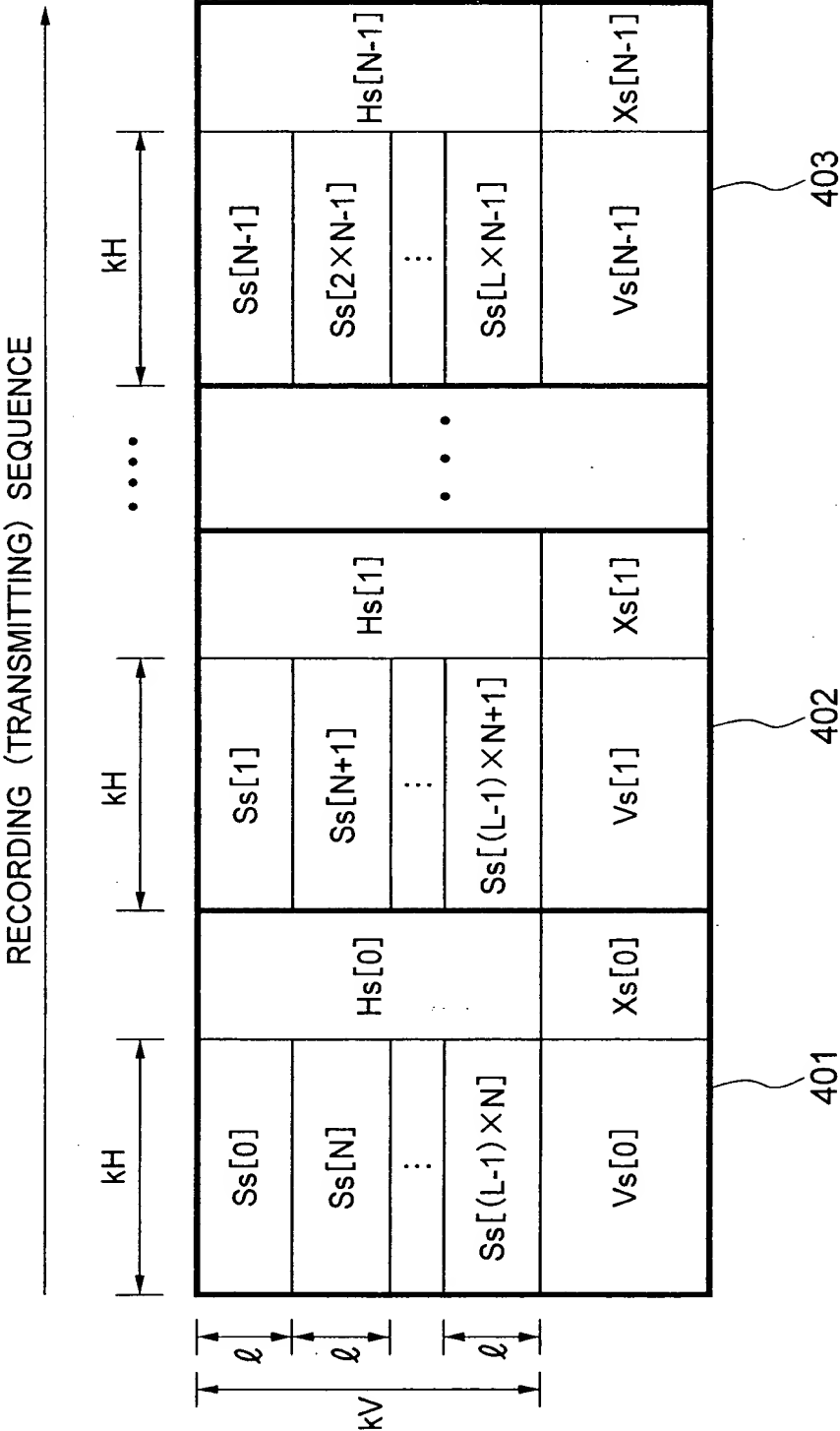


FIG. 5

RECORDING (TRANSMITTING) SEQUENCE

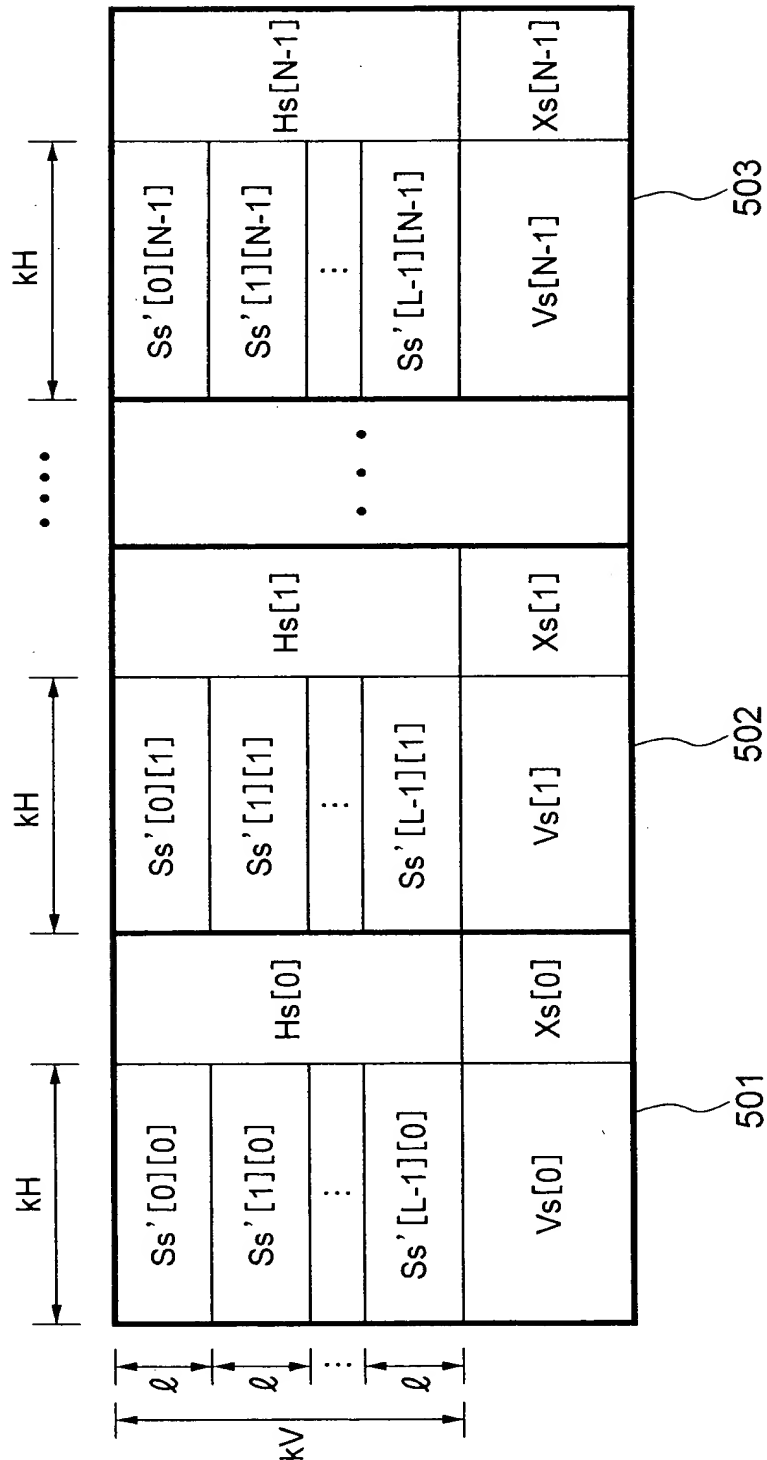
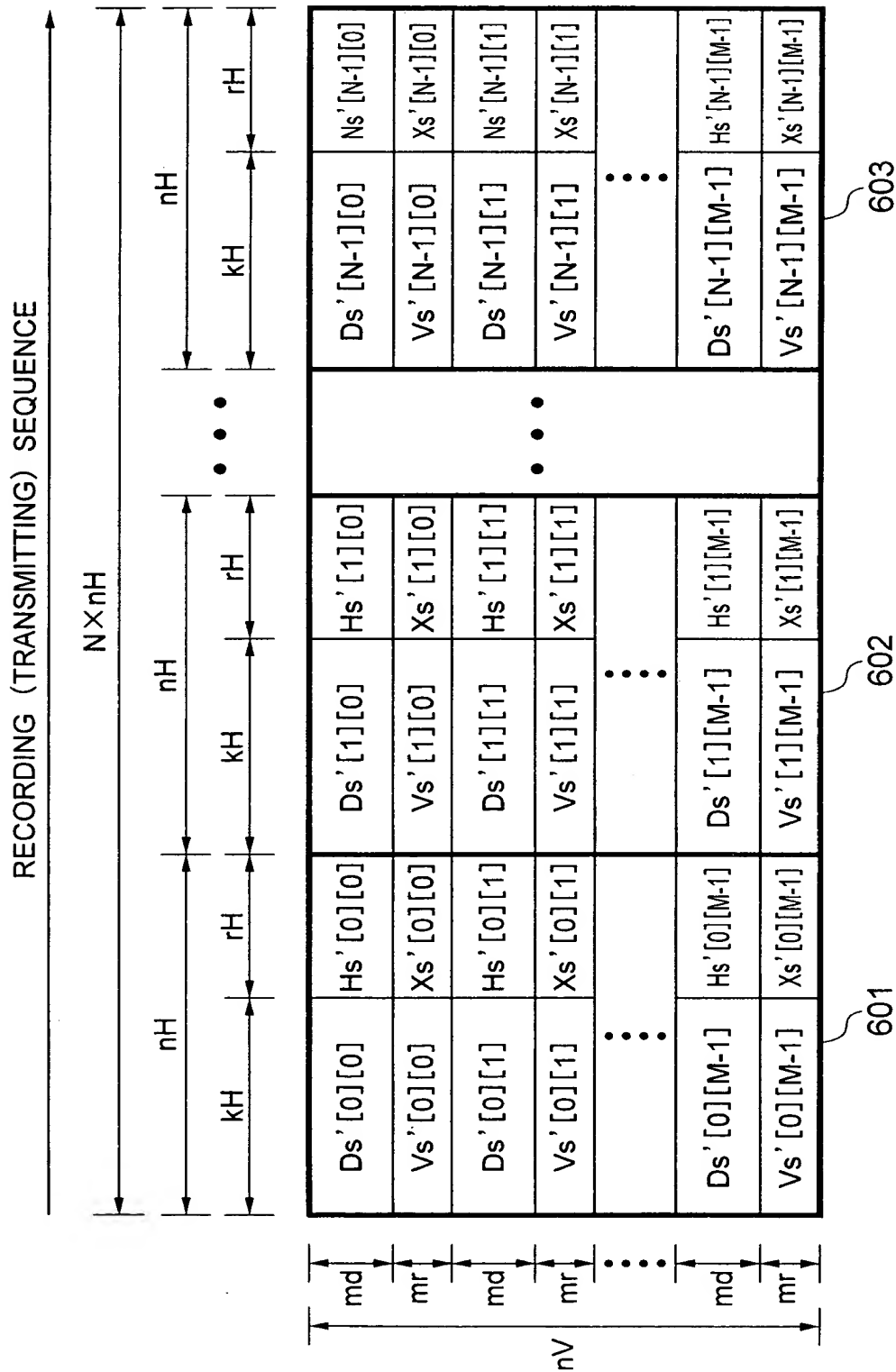


FIG. 6



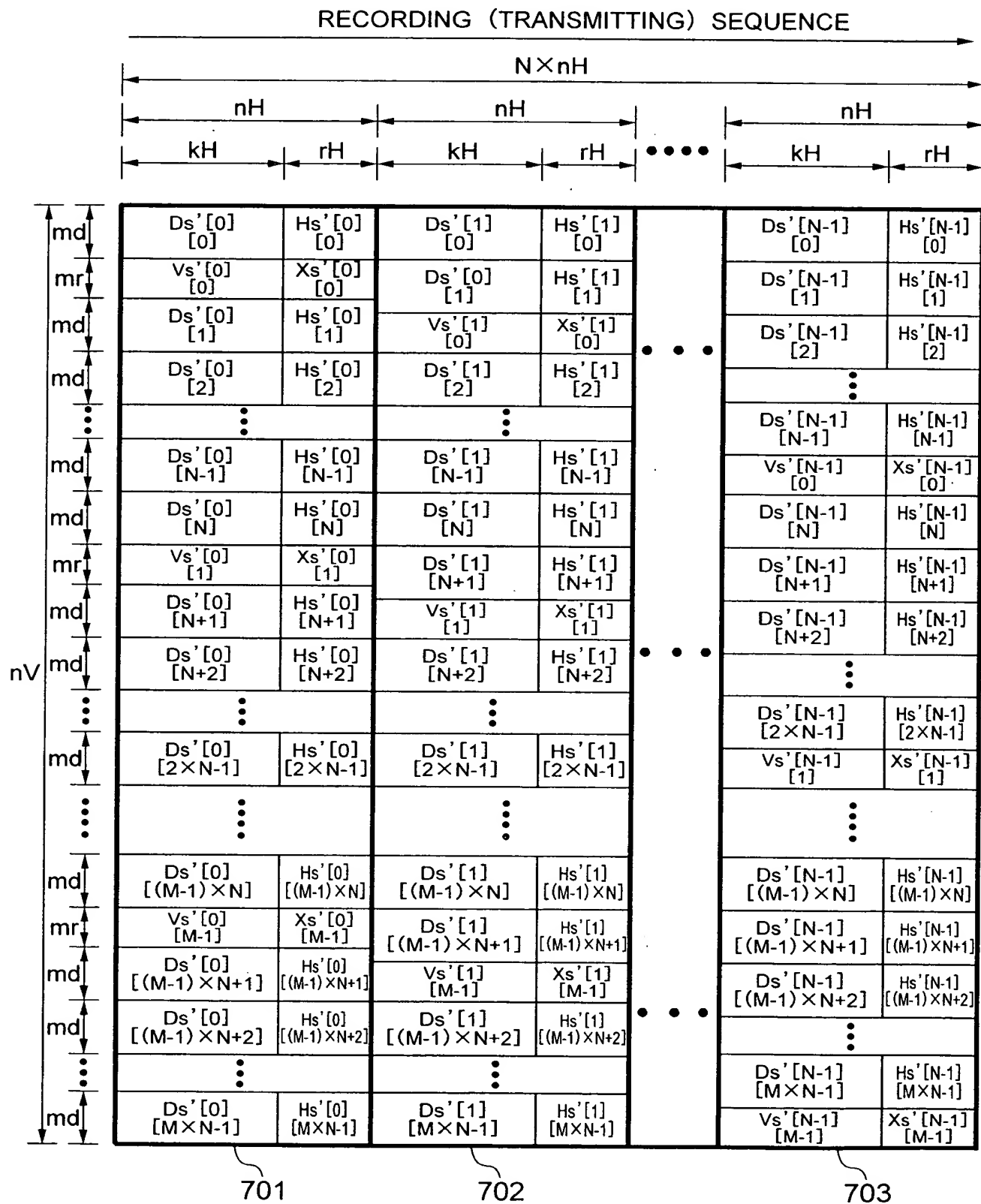
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Title: Error Correction Coding and Decoding Apparatus

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FIG. 7



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FIG. 8

## RECORDING (TRANSMITTING) SEQUENCE

D[0] [0]	D[0] [1]	.....	D[0] [171]	H1[0] [0]	H1[0] [1]	...	H1[0] [9]	D[1] [0]	D[1] [1]	.....	D[1] [171]	H2[0] [0]	H2[0] [1]	...	H2[0] [9]
D[0] [172]	D[0] [173]	.....	D[0] [343]	H1[1] [0]	H1[1] [1]	...	H1[1] [9]	D[1] [172]	D[1] [173]	.....	D[1] [343]	H2[1] [0]	H2[1] [1]	...	H2[1] [9]
⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮
D[0] [1892]	D[0] [1893]	.....	D[0] [2063]	H1[11] [0]	H1[11] [1]	...	H1[11] [9]	D[1] [1892]	D[1] [1893]	.....	D[1] [2063]	H2[11] [0]	H2[11] [1]	...	H2[11] [9]
D[2] [0]	D[2] [1]	.....	D[2] [171]	H1[12] [0]	H1[12] [1]	...	H1[12] [9]	D[3] [0]	D[3] [1]	.....	D[3] [171]	H2[12] [0]	H2[12] [1]	...	H2[12] [9]
D[2] [172]	D[2] [173]	.....	D[2] [343]	H1[13] [0]	H1[13] [1]	...	H1[13] [9]	D[3] [172]	D[3] [173]	.....	D[3] [343]	H2[13] [0]	H2[13] [1]	...	H2[13] [9]
⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮
D[2] [1892]	D[2] [1893]	.....	D[2] [2063]	H1[23] [0]	H1[23] [1]	...	H1[23] [9]	D[3] [1892]	D[3] [1893]	.....	D[3] [2063]	H2[23] [0]	H2[23] [1]	...	H2[23] [9]
⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮
D[30] [0]	D[30] [1]	.....	D[30] [171]	H1[180] [0]	H1[180] [1]	...	H1[180] [9]	D[31] [0]	D[31] [1]	.....	D[31] [171]	H2[180] [0]	H2[180] [1]	...	H2[180] [9]
D[30] [172]	D[30] [173]	.....	D[30] [343]	H1[181] [0]	H1[181] [1]	...	H1[181] [9]	D[31] [172]	D[31] [173]	.....	D[31] [343]	H2[181] [0]	H2[181] [1]	...	H2[181] [9]
⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮
D[30] [1892]	D[30] [1893]	.....	D[30] [2063]	H1[191] [0]	H1[191] [1]	...	H1[191] [9]	D[31] [1892]	D[31] [1893]	.....	D[31] [2063]	H2[191] [0]	H2[191] [1]	...	H2[191] [9]
V1[0] [0]	V1[1] [0]	.....	V1[171] [0]	X1[0] [0]	X1[0] [1]	...	X1[0] [9]	V2[0] [0]	V2[1] [0]	.....	V2[171] [0]	X2[0] [0]	X2[0] [1]	...	X2[0] [9]
V1[0] [1]	V1[1] [1]	.....	V1[171] [1]	X1[1] [0]	X1[1] [1]	...	X1[1] [9]	V2[0] [1]	V2[1] [1]	.....	V2[171] [1]	X2[1] [0]	X2[1] [1]	...	X2[1] [9]
⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮	⋮	⋮		⋮
V1[0] [15]	V1[1] [15]	.....	V1[171] [15]	X1[15] [0]	X1[15] [1]	...	X1[15] [9]	V2[0] [15]	V2[1] [15]	.....	V2[171] [15]	X2[15] [0]	X2[15] [1]	...	X2[15] [9]

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## FIG. 10

## RECORDING (TRANSMITTING) SEQUENCE

D[0] [0]	D[0] [1]	.....	D[0] [171]	H1[0] [0]	H1[0] [1]	...	H1[0] [9]	D[1] [0]	D[1] [1]	.....	D[1] [171]	H2[0] [0]	H2[0] [1]	...	H2[0] [9]
:	:		:	:	:		:	:	:		:	:	:		:
D[0] [860]	D[0] [861]	.....	D[0] [1031]	H1[5] [0]	H1[5] [1]	...	H1[5] [9]	D[1] [860]	D[1] [861]	.....	D[1] [1031]	H2[5] [0]	H2[5] [1]	...	H2[5] [9]
V1[0] [0]	V1[1] [0]	.....	V1[171] [0]	X1[0] [0]	X1[0] [1]	...	X1[0] [9]	D[1] [1032]	D[1] [1033]	.....	D[1] [1203]	H2[6] [0]	H2[6] [1]	...	H2[6] [9]
D[0] [1032]	D[0] [1033]	.....	D[0] [1203]	H1[6] [0]	H1[6] [1]	...	H1[6] [9]	:	:		:	:	:		:
:	:		:	:	:		:	D[1] [1892]	D[1] [1893]	.....	D[1] [2063]	H2[11] [0]	H2[11] [1]	...	H2[11] [9]
D[0] [1892]	D[0] [1893]	.....	D[0] [2063]	H1[11] [0]	H1[11] [1]	...	H1[11] [9]	V2[0] [0]	V2[1] [0]	.....	V2[171] [0]	X2[0] [0]	X2[0] [1]	...	X2[0] [9]
D[2] [0]	D[2] [1]	.....	D[2] [171]	H1[12] [0]	H1[12] [1]	...	H1[12] [9]	D[3] [0]	D[3] [1]	.....	D[3] [171]	H2[12] [0]	H2[12] [1]	...	H2[12] [9]
:	:		:	:	:		:	:	:		:	:	:		:
D[2] [860]	D[2] [861]	.....	D[2] [1031]	H1[17] [0]	H1[17] [1]	...	H1[17] [9]	D[3] [860]	D[3] [861]	.....	D[3] [1031]	H2[17] [0]	H2[17] [1]	...	H2[17] [9]
V1[0] [1]	V1[1] [1]	.....	V1[171] [1]	X1[1] [0]	X1[1] [1]	...	X1[1] [9]	D[3] [1032]	D[3] [1033]	.....	D[3] [1203]	H2[18] [0]	H2[18] [1]	...	H2[18] [9]
D[2] [1032]	D[2] [1033]	.....	D[2] [1203]	H1[18] [0]	H1[18] [1]	...	H1[18] [9]	:	:		:	:	:		:
:	:		:	:	:		:	D[3] [1892]	D[3] [1893]	.....	D[3] [2063]	H2[23] [0]	H2[23] [1]	...	H2[23] [9]
D[2] [1892]	D[2] [1893]	.....	D[2] [2063]	H1[23] [0]	H1[23] [1]	...	H1[23] [9]	V2[0] [1]	V2[1] [1]	.....	V2[171] [1]	X2[1] [0]	X2[1] [1]	...	X2[1] [9]
:	:		:	:	:		:	:	:		:	:	:		:
D[30] [0]	D[30] [1]	.....	D[30] [171]	H1[180] [0]	H1[180] [1]	...	H1[180] [9]	D[31] [0]	D[31] [1]	.....	D[31] [171]	H2[180] [0]	H2[180] [1]	...	H2[180] [9]
:	:		:	:	:		:	:	:		:	:	:		:
D[30] [860]	D[30] [861]	.....	D[30] [1031]	H1[185] [0]	H1[185] [1]	...	H1[185] [9]	D[31] [860]	D[31] [861]	.....	D[31] [1031]	H2[185] [0]	H2[185] [1]	...	H2[185] [9]
V1[0] [15]	V1[1] [15]	.....	V1[171] [15]	X1[15] [0]	X1[15] [1]	...	X1[15] [9]	D[31] [1032]	D[31] [1033]	.....	D[31] [1203]	H2[186] [0]	H2[186] [1]	...	H2[186] [9]
D[30] [1032]	D[30] [1033]	.....	D[30] [1203]	H1[186] [0]	H1[186] [1]	...	H1[186] [9]	:	:		:	:	:		:
:	:		:	:	:		:	D[31] [1892]	D[31] [1893]	.....	D[31] [2063]	H2[191] [0]	H2[191] [1]	...	H2[191] [9]
D[30] [1892]	D[30] [1893]	.....	D[30] [2063]	H1[191] [0]	H1[191] [1]	...	H1[191] [9]	V2[0] [15]	V2[1] [15]	.....	V2[171] [15]	X2[15] [0]	X2[15] [1]	...	X2[15] [9]

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FIG.11

## RECORDING (TRANSMITTING) SEQUENCE

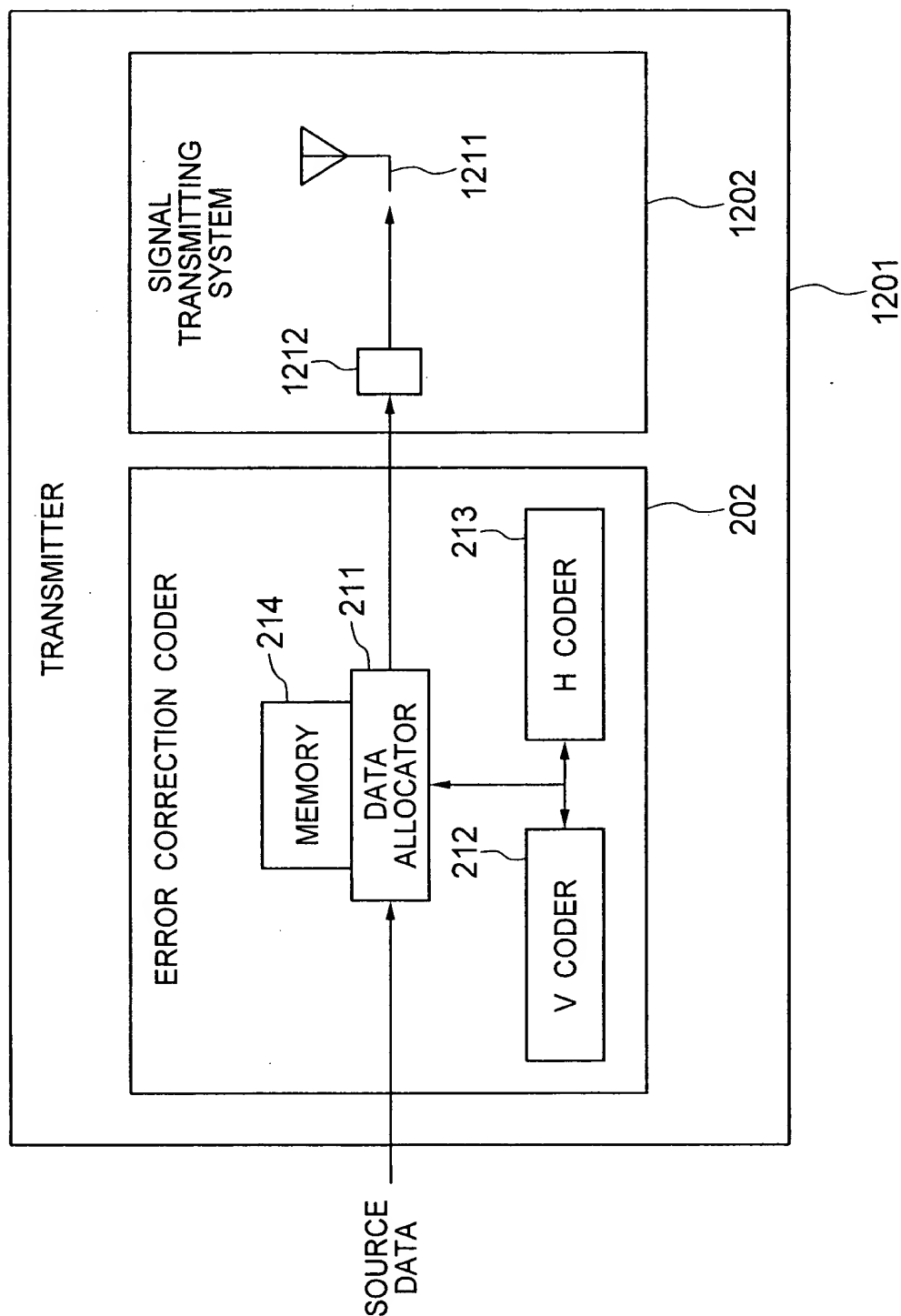
D[0] [0]	D[0] [1]	.....	D[0] [171]	H1[0] [0]	H1[0] [1]	.....	H1[0] [9]	D[0] [172]	D[0] [173]	.....	D[0] [343]	H2[0] [0]	H2[0] [1]	.....	H2[0] [9]
D[0] [344]	D[0] [345]	.....	D[0] [515]	H1[1] [0]	H1[1] [1]	.....	H1[1] [9]	D[0] [516]	D[0] [517]	.....	D[0] [687]	H2[1] [0]	H2[1] [1]	.....	H2[1] [9]
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
D[0] [1720]	D[0] [1721]	.....	D[0] [1891]	H1[5] [0]	H1[5] [1]	.....	H1[5] [9]	D[0] [1892]	D[0] [1893]	.....	D[0] [2063]	H2[5] [0]	H2[5] [1]	.....	H2[5] [9]
V1[0] [0]	V1[1] [0]	.....	V1[171] [0]	X1[0] [0]	X1[0] [1]	.....	X1[0] [9]	D[1] [172]	D[1] [173]	.....	D[1] [343]	H2[6] [0]	H2[6] [1]	.....	H2[6] [9]
D[1] [0]	D[1] [1]	.....	D[1] [171]	H1[6] [0]	H1[6] [1]	.....	H1[6] [9]	D[1] [516]	D[1] [517]	.....	D[1] [687]	H2[7] [0]	H2[7] [1]	.....	H2[7] [9]
D[1] [344]	D[1] [345]	.....	D[1] [515]	H1[7] [0]	H1[7] [1]	.....	H1[7] [9]	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	D[1] [1892]	D[1] [1893]	.....	D[1] [2063]	H2[11] [0]	H2[11] [1]	.....	H2[11] [9]
D[1] [1720]	D[1] [1721]	.....	D[1] [1891]	H1[11] [0]	H1[11] [1]	.....	H1[11] [9]	V2[0] [0]	V2[1] [0]	.....	V2[171] [0]	X2[0] [0]	X2[0] [1]	.....	X2[0] [9]
D[2] [0]	D[2] [1]	.....	D[2] [171]	H1[12] [0]	H1[12] [1]	.....	H1[12] [9]	D[2] [172]	D[2] [173]	.....	D[2] [343]	H2[12] [0]	H2[12] [1]	.....	H2[12] [9]
D[2] [344]	D[2] [345]	.....	D[2] [515]	H1[13] [0]	H1[13] [1]	.....	H1[13] [9]	D[2] [516]	D[2] [517]	.....	D[2] [687]	H2[13] [0]	H2[13] [1]	.....	H2[13] [9]
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
D[2] [1720]	D[2] [1721]	.....	D[2] [1891]	H1[17] [0]	H1[17] [1]	.....	H1[17] [9]	D[2] [1892]	D[2] [1893]	.....	D[2] [2063]	H2[17] [0]	H2[17] [1]	.....	H2[17] [9]
V1[0] [1]	V1[1] [1]	.....	V1[171] [1]	X1[1] [0]	X1[1] [1]	.....	X1[1] [9]	D[3] [172]	D[3] [173]	.....	D[3] [343]	H2[18] [0]	H2[18] [1]	.....	H2[18] [9]
D[3] [0]	D[3] [1]	.....	D[3] [171]	H1[18] [0]	H1[18] [1]	.....	H1[18] [9]	D[3] [516]	D[3] [517]	.....	D[3] [687]	H2[19] [0]	H2[19] [1]	.....	H2[19] [9]
D[3] [344]	D[3] [345]	.....	D[3] [515]	H1[19] [0]	H1[19] [1]	.....	H1[19] [9]	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	D[3] [1892]	D[3] [1893]	.....	D[3] [2063]	H2[23] [0]	H2[23] [1]	.....	H2[23] [9]
D[3] [1720]	D[3] [1721]	.....	D[3] [1891]	H1[23] [0]	H1[23] [1]	.....	H1[23] [9]	V2[0] [1]	V2[1] [1]	.....	V2[171] [1]	X2[1] [0]	X2[1] [1]	.....	X2[1] [9]
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
D[30] [0]	D[30] [1]	.....	D[30] [171]	H1[180] [0]	H1[180] [1]	.....	H1[180] [9]	D[30] [172]	D[30] [173]	.....	D[30] [343]	H2[180] [0]	H2[180] [1]	.....	H2[180] [9]
D[30] [344]	D[30] [345]	.....	D[30] [515]	H1[181] [0]	H1[181] [1]	.....	H1[181] [9]	D[30] [516]	D[30] [517]	.....	D[30] [687]	H2[181] [0]	H2[181] [1]	.....	H2[181] [9]
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
D[30] [1720]	D[30] [1721]	.....	D[30] [1891]	H1[185] [0]	H1[185] [1]	.....	H1[185] [9]	D[30] [1892]	D[30] [1893]	.....	D[30] [2063]	H2[185] [0]	H2[185] [1]	.....	H2[185] [9]
V1[0] [15]	V1[1] [15]	.....	V1[171] [15]	X1[15] [0]	X1[15] [1]	.....	X1[15] [9]	D[31] [172]	D[31] [173]	.....	D[31] [343]	H2[186] [0]	H2[186] [1]	.....	H2[186] [9]
D[31] [0]	D[31] [1]	.....	D[31] [171]	H1[186] [0]	H1[186] [1]	.....	H1[186] [9]	D[31] [516]	D[31] [517]	.....	D[31] [687]	H2[187] [0]	H2[187] [1]	.....	H2[187] [9]
D[31] [344]	D[31] [345]	.....	D[31] [515]	H1[187] [0]	H1[187] [1]	.....	H1[187] [9]	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	D[31] [1892]	D[31] [1893]	.....	D[31] [2063]	H2[191] [0]	H2[191] [1]	.....	H2[191] [9]
D[31] [1720]	D[31] [1721]	.....	D[31] [1891]	H1[191] [0]	H1[191] [1]	.....	H1[191] [9]	V2[0] [15]	V2[1] [15]	.....	V2[171] [15]	X2[15] [0]	X2[15] [1]	.....	X2[15] [9]

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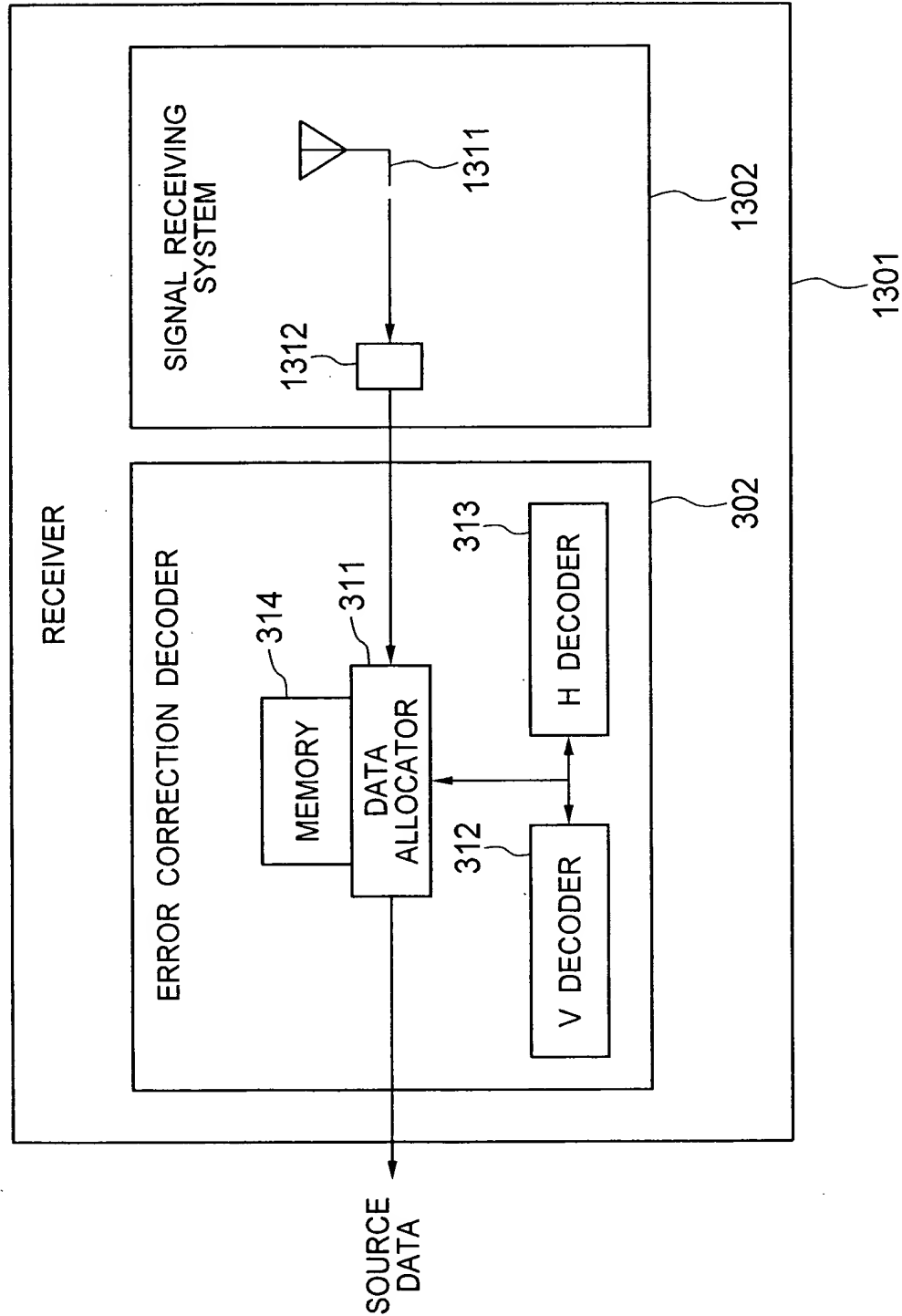
16869S-035600

FIG. 12



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FIG. 13



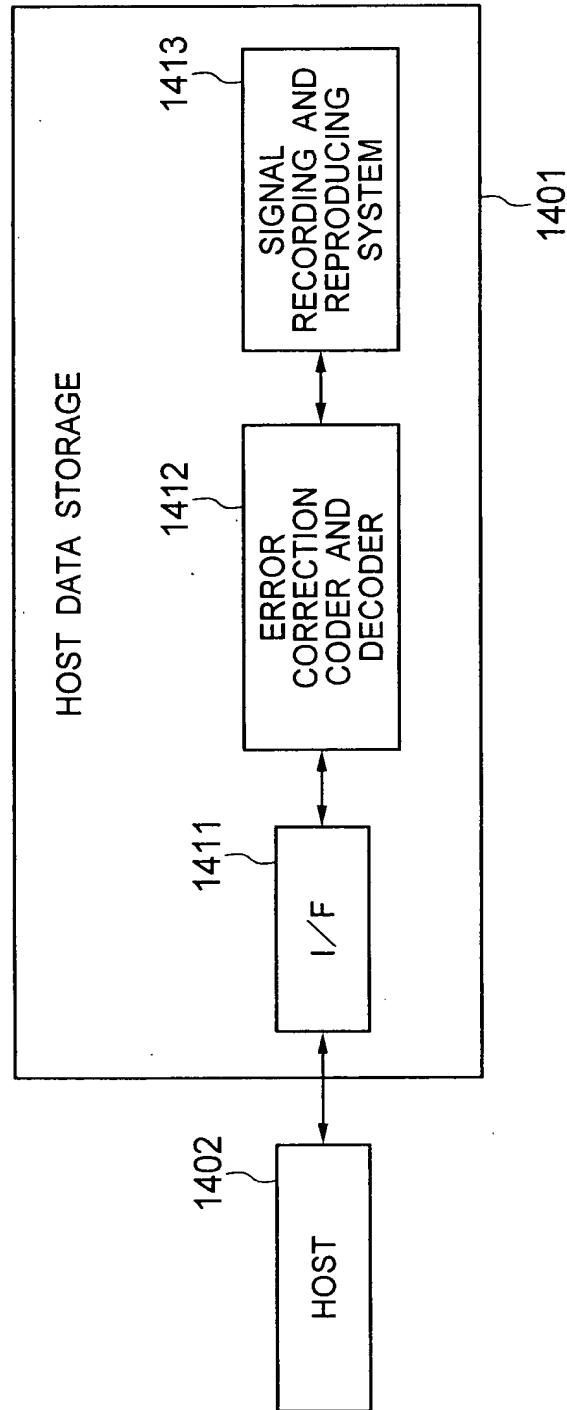
Applicant: Shigeki Taira, et al.

Error Correction Coding and Decoding Apparatus

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FIG. 14



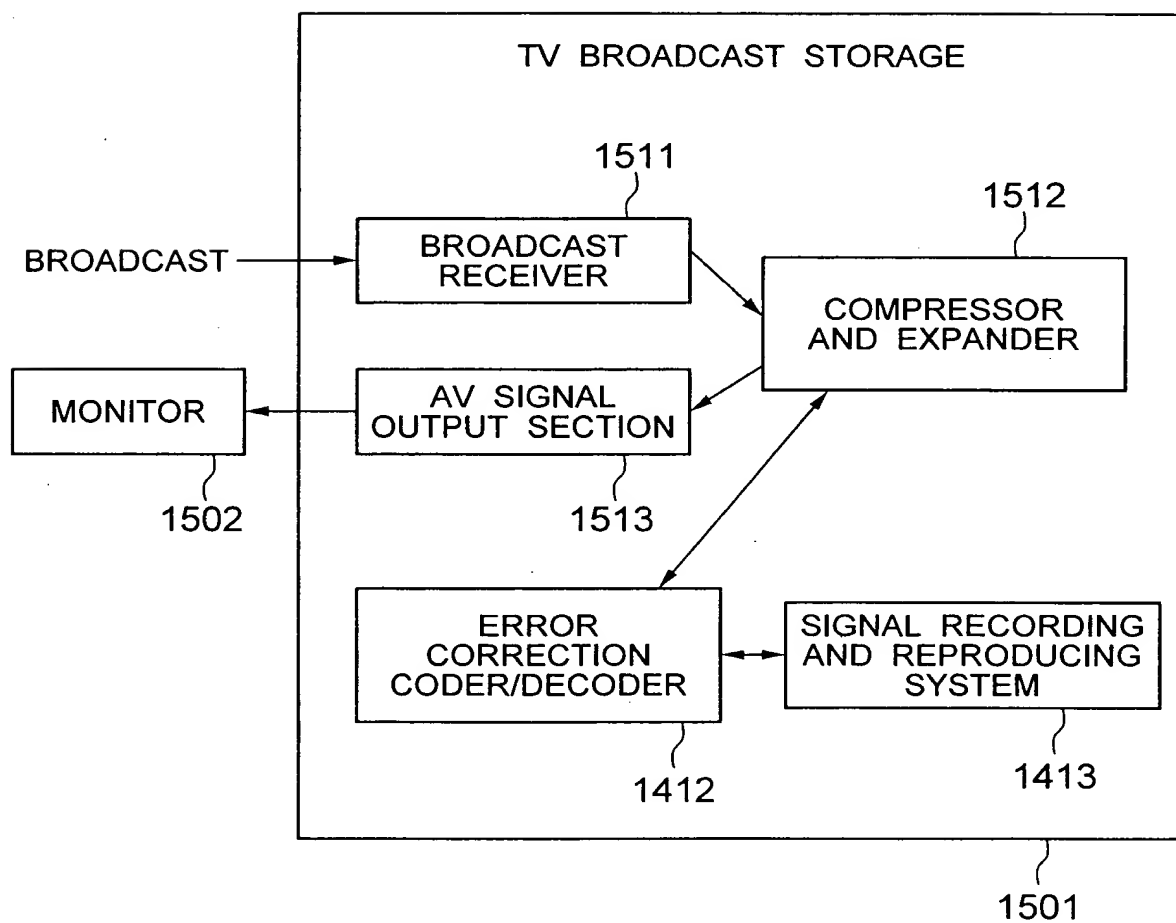
Applicant: Shigeki Taira, et al.

Title: Error Correction Coding and Decoding Apparatuses

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FIG.15



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Title: Error Correction Coding and Decoding Apparatuses

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FIG.16

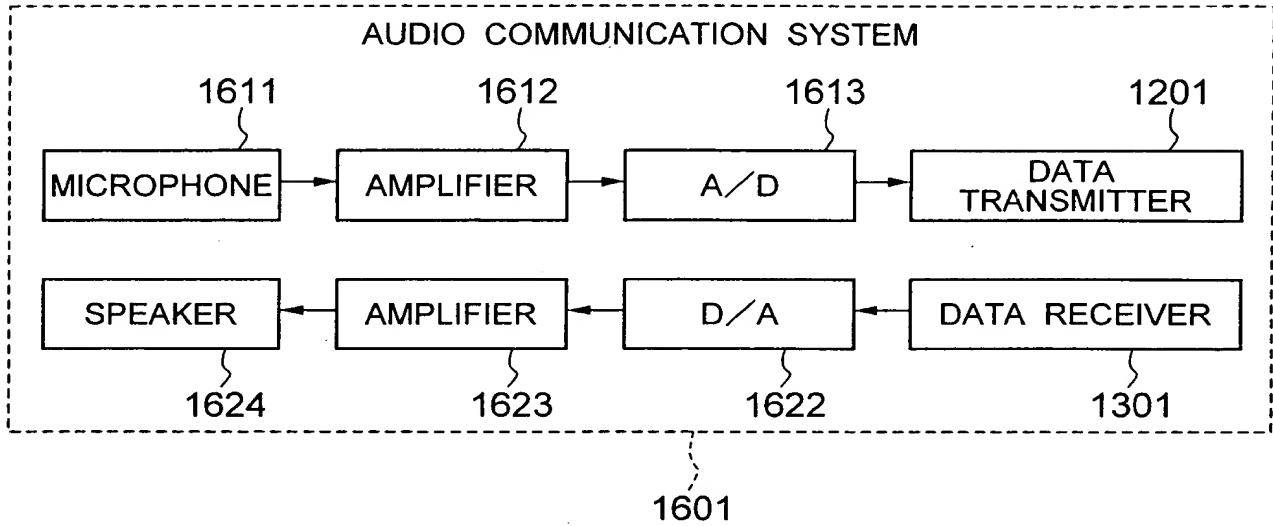


FIG.17

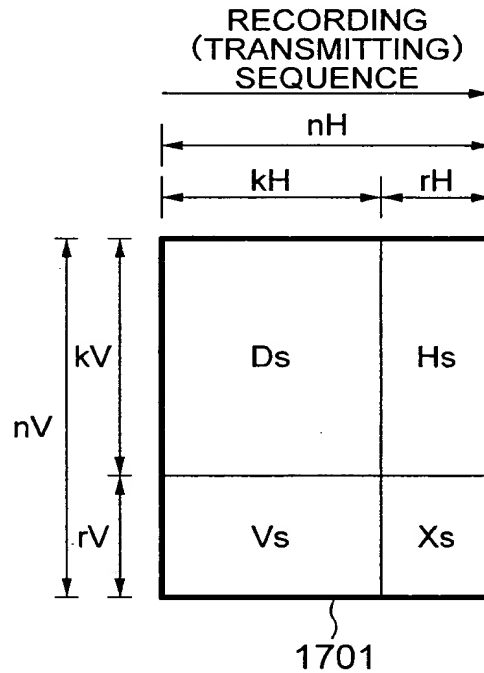


FIG.18

